



IFW16

## RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/610,551C

DATE: 08/18/2004

TIME: 10:08:26

Input Set : A:\TSRI 409.1D2.txt

Output Set: N:\CRF4\08182004\I610551C.raw

**SEQUENCE LISTING**

- 4 (1) GENERAL INFORMATION:  
5 (i) APPLICANT: Barbas, Carlos F, III  
6 Burton, Dennis R  
7 Lerner, Richard A  
8  
9 (ii) TITLE OF INVENTION: METHODS FOR PRODUCING ANTIBODY LIBRARIES  
10 USING UNIVERSAL OR RANDOMIZED IMMUNOGLOBULIN LIGHT CHAINS  
11  
12 (iii) NUMBER OF SEQUENCES: 74  
13  
14 (iv) CORRESPONDENCE ADDRESS:  
15 (A) ADDRESSEE: The Scripps Research Institute  
16 (B) STREET: 10550 North Torrey Pines Road, TPC8  
17 (C) CITY: La Jolla  
18 (D) STATE: CA  
19 (E) COUNTRY: USA  
20 (F) ZIP: 92037  
21  
22 (v) COMPUTER READABLE FORM:  
23 (A) MEDIUM TYPE: Floppy disk  
24 (B) COMPUTER: IBM PC compatible  
25 (C) OPERATING SYSTEM: PC-DOS/MS-DOS  
26 (D) SOFTWARE: PatentIn Release #1.0, Version #1.25  
27  
28 (vi) CURRENT APPLICATION DATA:  
29 (A) APPLICATION NUMBER: US/09/610,551C  
30 (B) FILING DATE: 05-Jul-2000  
31 (C) CLASSIFICATION:  
32  
33 (vii) PRIOR APPLICATION DATA:  
34 (A) APPLICATION NUMBER: US 07/826,623  
35 (B) FILING DATE: 27-JAN-1992  
36 (A) APPLICATION NUMBER: US 08/174,674  
37 (B) FILING DATE: 28-DEC-1993  
38 (A) APPLICATION NUMBER: US 08/300,386  
39 (B) FILING DATE: 02-SEP-1994  
40 (A) APPLICATION NUMBER: US 08/931,645  
41 (B) FILING DATE: 16-SEP-1997  
42  
43 (viii) ATTORNEY/AGENT INFORMATION:  
44 (A) NAME: Fitting, Thomas  
45 (B) REGISTRATION NUMBER: 34,163  
46 (C) REFERENCE/DOCKET NUMBER: TSRI 409.1  
47  
48 (ix) TELECOMMUNICATION INFORMATION:  
49 (A) TELEPHONE: 858-784-2937  
50 (B) TELEFAX: 858-784-9399  
51  
52 (2) INFORMATION FOR SEQ ID NO: 1:  
53 (i) SEQUENCE CHARACTERISTICS:  
54 (A) LENGTH: 687 base pairs

**ENTERED**



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64           (B) TYPE: nucleic acid  
 65           (C) STRANDEDNESS: single  
 66           (D) TOPOLOGY: linear  
 68        (ii) MOLECULE TYPE: cDNA  
 70        (iii) HYPOTHETICAL: NO  
 72        (iv) ANTI-SENSE: NO  
 76        (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1:  
 78 CTCGAGCAGT CTGGGGCTGA GGTGAAGAAG CCTGGGTCT CGGTGAAGGT CTCCTGCAGG     60  
 80 GCTTCTGGAG GCACCTTCAA CAATTATGCC ATCAGCTGGG TGCGACAGGC CCCTGGACAA     120  
 82 GGGCTTGAGT GGATGGGAGG GATCTTCCCT TTCCGTAATA CAGCAAAGTA CGCACAAACAC     180  
 84 TTCCAGGGCA GAGTCACCAT TACCGCGGAC GAATCCACGG GCACAGCCTA CATGGAGCTG     240  
 86 AGCAGCCTGA GATCTGAGGA CACGGCCATA TATTATTGTG CGAGAGGGGA TACGATTTTT     300  
 88 GGAGTGCACCA TGGGATACTA CGCTATGGAC GTCTGGGGCC AAGGGACCAC GGTACCGTC     360  
 90 TCCGCAGCCT CCACCAAGGG CCCATCGGTC TTCCCCCTGG CACCCCTCTC CAAGAGCACC     420  
 92 TCTGGGGGCA CAGCGCCCT GGGCTGCCTG GTCAAGGACT ACTTCCCCGA ACCGGTGACG     480  
 94 GTGTCGTGGA ACTCAGGCAC CCTGACCAGC GGCCTGCACA CCTTCCCGGC TGTCTACAG     540  
 96 TCCTCAGGAC TCTACTCCCT CAGCAGCGTG GTGACCCTGC CCTCCAGCAG CTTGGGCACC     600  
 98 CAGACCTACA TCTGCAACGT GAATCACAAG CCCAGCAACA CCAAGGTGGA CAAGAAAGCA     660  
 100 GAGCCAAAT CTTGTGACAA AACTAGT   687  
 102 (2) INFORMATION FOR SEQ ID NO: 2:  
 104        (i) SEQUENCE CHARACTERISTICS:  
 105           (A) LENGTH: 646 base pairs  
 106           (B) TYPE: nucleic acid  
 107           (C) STRANDEDNESS: single  
 108           (D) TOPOLOGY: linear  
 110        (ii) MOLECULE TYPE: cDNA  
 112        (iii) HYPOTHETICAL: NO  
 114        (iv) ANTI-SENSE: NO  
 118        (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2:  
 120 GAGCTCACCG AGTCTCCAGG CACCCTGTCT TTGTCTCCAG GGGAAAGAGC CACCCCTCTCC     60  
 122 TGCAGGGCCA GTCACAGTGT TAGCAGGCC TACTTAGCCT GGTACCAAGCA GAAACCTGGC     120  
 124 CAGGCTCCCA GGCTCCTCAT CTATGGTACA TCCAGCAGGG CCACTGGCAT CCCAGACAGG     180  
 126 TCCAGTGGCA GTGGGTCTGG GACAGACTTC ACTCTCACCA TCAGCAGACT GGAGCCTGAA     240  
 128 GATTTGCAG TGTACTACTG TCAGCAGTAT GGTGGCTCAC CGTGGTTCGG CCAAGGGACC     300  
 130 AAGGTGGAAC TCAAACGAAC TGTGGCTGCA CCATCTGTCT TCATCTTCCC GCCATCTGAT     360  
 132 GAGCAGTTGA AATCTGGAAC TGCCTCTGTT GTGTGCCTGC TGAATAACTT CTATCCCAGA     420  
 134 GAGGCCAAAG TACAGTGGAA GGTGGATAAC GCCCTCCAAT CGGGTAACTC CCAGGAGAGT     480  
 136 GTCACAGAGC AGGACAGCAA GGACAGCACC TACAGCCTCA GCAGCACCT GACGCTGAGC     540  
 138 AAAGCAGACT ACGAGAAACA CAAAGTCTAC GCCTGCGAAG TCACCCATCA GGGCCTGAGT     600  
 140 TCGCCCGTCA CAAAGAGCTT CAACAGGGGA GAGTGTAAAT TCTAGA                     646  
 142 (2) INFORMATION FOR SEQ ID NO: 3:  
 144        (i) SEQUENCE CHARACTERISTICS:  
 145           (A) LENGTH: 21 base pairs  
 146           (B) TYPE: nucleic acid  
 147           (C) STRANDEDNESS: single  
 148           (D) TOPOLOGY: linear  
 150        (ii) MOLECULE TYPE: cDNA  
 152        (iii) HYPOTHETICAL: NO  
 154        (iv) ANTI-SENSE: NO

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158      (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3:
160  GAATTCTAAA CTAGCTAGTC G                                21
162  (2) INFORMATION FOR SEQ ID NO: 4:
164      (i) SEQUENCE CHARACTERISTICS:
165          (A) LENGTH: 21 base pairs
166          (B) TYPE: nucleic acid
167          (C) STRANDEDNESS: single
168          (D) TOPOLOGY: linear
170      (ii) MOLECULE TYPE: cDNA
172      (iii) HYPOTHETICAL: NO
174      (iv) ANTI-SENSE: YES
178      (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4:
180  ATACTGCTGA CAGTAATACA C                                21
182  (2) INFORMATION FOR SEQ ID NO: 5:
184      (i) SEQUENCE CHARACTERISTICS:
185          (A) LENGTH: 57 base pairs
186          (B) TYPE: nucleic acid
187          (C) STRANDEDNESS: single
188          (D) TOPOLOGY: linear
190      (ii) MOLECULE TYPE: cDNA
192      (iii) HYPOTHETICAL: NO
194      (iv) ANTI-SENSE: NO
198      (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5:
200  TATTACTGTC AGCAGTATNN KNNKNNKNK ACTTCGGCG GAGGGACCAA GGTGGAG      57
202  (2) INFORMATION FOR SEQ ID NO: 6:
204      (i) SEQUENCE CHARACTERISTICS:
205          (A) LENGTH: 21 base pairs
206          (B) TYPE: nucleic acid
207          (C) STRANDEDNESS: single
208          (D) TOPOLOGY: linear
210      (ii) MOLECULE TYPE: cDNA
212      (iii) HYPOTHETICAL: NO
214      (iv) ANTI-SENSE: YES
218      (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6:
220  AATACGACTC ACTATAGGGC G                                21
222  (2) INFORMATION FOR SEQ ID NO: 7:
224      (i) SEQUENCE CHARACTERISTICS:
225          (A) LENGTH: 48 base pairs
226          (B) TYPE: nucleic acid
227          (C) STRANDEDNESS: single
228          (D) TOPOLOGY: linear
230      (ii) MOLECULE TYPE: cDNA
232      (iii) HYPOTHETICAL: NO
234      (iv) ANTI-SENSE: NO
238      (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7:
240  TATTACTGTC AGCAGTATNN KNNKNNKNK ACTTCGGCG GAGGGACC      48
242  (2) INFORMATION FOR SEQ ID NO: 8:
244      (i) SEQUENCE CHARACTERISTICS:
245          (A) LENGTH: 60 base pairs

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246           (B) TYPE: nucleic acid  
 247           (C) STRANDEDNESS: single  
 248           (D) TOPOLOGY: linear  
 250        (ii) MOLECULE TYPE: cDNA  
 252        (iii) HYPOTHETICAL: NO  
 254        (iv) ANTI-SENSE: NO  
 258        (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 8:  
 260 TATTACTGTC AGCAGTATNN KNNKNNKNNK NNKACTTTCG GCGGAGGGAC CAAGGTGGAG       60  
 263 (2) INFORMATION FOR SEQ ID NO: 9:  
 265        (i) SEQUENCE CHARACTERISTICS:  
 266           (A) LENGTH: 51 base pairs  
 267           (B) TYPE: nucleic acid  
 268           (C) STRANDEDNESS: single  
 269           (D) TOPOLOGY: linear  
 271        (ii) MOLECULE TYPE: cDNA  
 273        (iii) HYPOTHETICAL: NO  
 275        (iv) ANTI-SENSE: NO  
 279        (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 9:  
 281 TATTACTGTC AGCAGTATNN KNNKNNKNNK NNKACTTTCG GCGGAGGGAC C       51  
 283 (2) INFORMATION FOR SEQ ID NO: 10:  
 285        (i) SEQUENCE CHARACTERISTICS:  
 286           (A) LENGTH: 75 base pairs  
 287           (B) TYPE: nucleic acid  
 288           (C) STRANDEDNESS: single  
 289           (D) TOPOLOGY: linear  
 291        (ii) MOLECULE TYPE: cDNA  
 293        (iii) HYPOTHETICAL: NO  
 295        (iv) ANTI-SENSE: NO  
 299        (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 10:  
 301 GATTTGCAG TGTATTACTG TCAGCAGTAT NNKNNKNNKN NKNNKNNKAC TTTCGGCGGA       60  
 303 GGGACCAAGG TGGAG       75  
 305 (2) INFORMATION FOR SEQ ID NO: 11:  
 307        (i) SEQUENCE CHARACTERISTICS:  
 308           (A) LENGTH: 54 base pairs  
 309           (B) TYPE: nucleic acid  
 310           (C) STRANDEDNESS: single  
 311           (D) TOPOLOGY: linear  
 313        (ii) MOLECULE TYPE: cDNA  
 315        (iii) HYPOTHETICAL: NO  
 317        (iv) ANTI-SENSE: NO  
 321        (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 11:  
 323 TATTACTGTC AGCAGTATNN KNNKNNKNNK NNKNNKACTT TCGGCAGGAGG GACC       54  
 325 (2) INFORMATION FOR SEQ ID NO: 12:  
 327        (i) SEQUENCE CHARACTERISTICS:  
 328           (A) LENGTH: 75 base pairs  
 329           (B) TYPE: nucleic acid  
 330           (C) STRANDEDNESS: single  
 331           (D) TOPOLOGY: linear  
 333        (ii) MOLECULE TYPE: cDNA

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335 (iii) HYPOTHETICAL: NO  
337 (iv) ANTI-SENSE: NO  
341 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 12:  
343 GATTTTGCAG TGTATTACTG TNNKNNKNK NNKNNKNNK NKNNKNNKNN KTTGGCGGA  
345 GGGACCAAGG TGGAG  
347 (2) INFORMATION FOR SEQ ID NO: 13:  
349 (i) SEQUENCE CHARACTERISTICS:  
350 (A) LENGTH: 70 base pairs  
351 (B) TYPE: nucleic acid  
352 (C) STRANDEDNESS: single  
353 (D) TOPOLOGY: linear  
355 (ii) MOLECULE TYPE: cDNA  
357 (iii) HYPOTHETICAL: NO  
359 (iv) ANTI-SENSE: YES  
363 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 13:  
365 GTTCCACCTT GGTCCCTTGG CCGAAMNNMN NMNNMNNNMNN MNMMNNMNNA CAGTAGTACA  
367 CTGCAAAATC  
369 (2) INFORMATION FOR SEQ ID NO: 14:  
371 (i) SEQUENCE CHARACTERISTICS:  
372 (A) LENGTH: 76 base pairs  
373 (B) TYPE: nucleic acid  
374 (C) STRANDEDNESS: single  
375 (D) TOPOLOGY: linear  
377 (ii) MOLECULE TYPE: cDNA  
379 (iii) HYPOTHETICAL: NO  
381 (iv) ANTI-SENSE: YES  
385 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 14:  
387 GTTCCACCTT GGTCCCTTGG CCGAAMNNMN NMNNMNNNMNN MNMMNNMNMM NNMNNACAGT  
389 AGTACACTGC AAAATC  
391 (2) INFORMATION FOR SEQ ID NO: 15:  
393 (i) SEQUENCE CHARACTERISTICS:  
394 (A) LENGTH: 94 base pairs  
395 (B) TYPE: nucleic acid  
396 (C) STRANDEDNESS: single  
397 (D) TOPOLOGY: linear  
399 (ii) MOLECULE TYPE: cDNA  
401 (iii) HYPOTHETICAL: NO  
403 (iv) ANTI-SENSE: YES  
407 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 15:  
409 GTTCCACCTT GGTCCCTTGG CCGAAMNNMN NMNNMNNNMNN MNMMNNMNMM NNMNNMNNMN  
411 NMNNMNNMN MNNAAGTAG TACACTGCAA AATC  
413 (2) INFORMATION FOR SEQ ID NO: 16:  
415 (i) SEQUENCE CHARACTERISTICS:  
416 (A) LENGTH: 25 base pairs  
417 (B) TYPE: nucleic acid  
418 (C) STRANDEDNESS: single  
419 (D) TOPOLOGY: linear  
421 (ii) MOLECULE TYPE: cDNA  
423 (iii) HYPOTHETICAL: NO

**VERIFICATION SUMMARY**

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L:30 M:220 C: Keyword misspelled or invalid format, [(A) APPLICATION NUMBER:]

L:31 M:220 C: Keyword misspelled or invalid format, [(B) FILING DATE:]